

TOSKANIMED
PASSION FOR SKIN®

mesosynergy®



TKN HA 3

CE
1023



The next generation biorevitaliser

www.toskanimed.com

ABOUT US

TOSKANIMED is the medical brand of the pharmaceutical laboratory TOSKANI which, with more than 36 years of experience in the field of aesthetic medicine and present in over 70 countries, specializes in medical and cosmetic products designed entirely for medical-aesthetic treatments.

MISSION

TOSKANIMED provides medical professionals with the products they need to perform the safest, most effective and efficient treatments. Our goal is to provide comprehensive and innovative skin care solutions to professionals in the field of aesthetic medicine.

WHAT DRIVES US

- + **Pharmaceutical quality** in the active ingredients of our products and total quality in all company processes.
- + **Innovation** in formulas designed and developed to achieve comprehensive solutions based on advanced technology active ingredients (biomimetic peptides, liposomes, and 3000 kDa hyaluronic acid).
- + **Safety.** All our products are subject to the most exhaustive controls, making their application effective for the medical professional and safe for the patient.
- + **Efficacy.** The results of years-long clinical studies support the efficacy of our products.
- + **Respect** above all for medical professionals, customers and patients.
- + **Sustainability** and care for the environment.

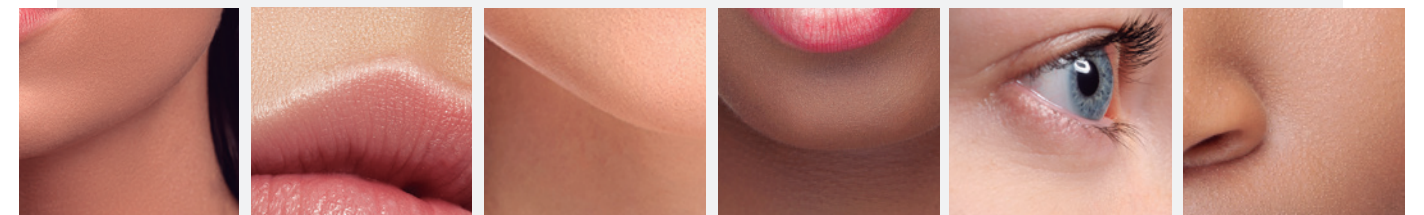
Why is hyaluronic acid so important in the skin?

Hyaluronic acid is a high-molecular-weight glycosaminoglycan, synthesised by the vacuolar system of fibroblasts and other cells, including keratinocytes, involving growth factors and other cytokines^[1].

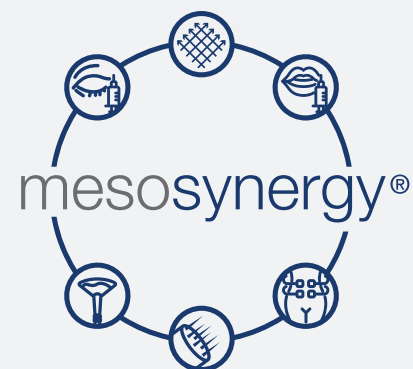
From the age of 30 onwards, the natural production of hyaluronic acid, collagen and elastin is reduced, leading to a loss of firmness and volume and, as a result, the first signs of ageing.

Hyaluronic acid also has other therapeutic applications besides treating skin ageing, such as tissue repair and wound healing.

1. **Stimulates** collagen production
2. **Increases** water content in the skin
3. **Improves** skin elasticity
4. **Decreases** skin flaccidity
5. **Strengthens** the epidermal barrier^[2]



INNOVATION



This technology ensures **sterile conditions** throughout the manufacturing process, helping preserve a **very high molecular weight**^[3].

Mesosynergy: concept that links TKN HA 3 and its characteristics with other techniques of cosmetic medicine.



Injectable biorevitalisers must be **sterile products**.

Thanks to Hyasep® Technology, molecular weight and its characteristics can be maintained throughout the manufacturing process^[3].



The most common process used to sterilise hyaluronic acid involves **autoclaving at the end of the manufacturing process**, which usually reduces molecular weight by half^[4].



HYAsep® technology quantifies and controls **all stages** of the manufacturing process to ensure **a sterile product is obtained**.

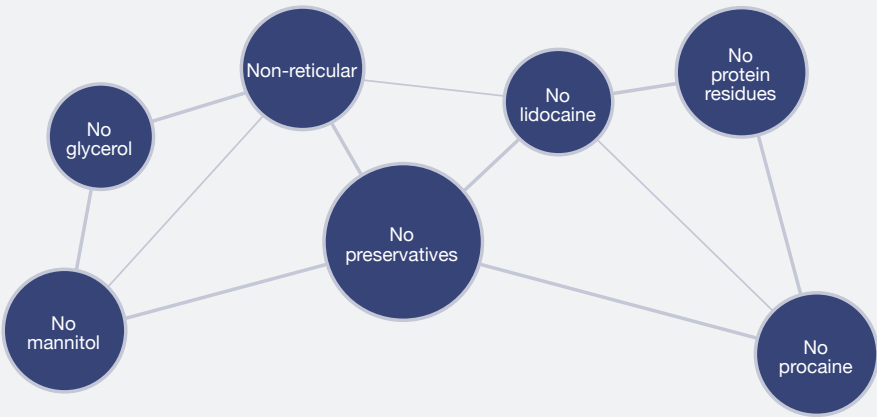
The final vessel also meets the **sterilisation conditions** before being filled.

The result is a hyaluronic acid that maintains all the high quality characteristics and a **very high molecular weight** from start to finish.

Hyaluronic acid in the skin

Hyaluronic acid is a molecule found naturally in the skin. Its most natural form is a **chain of sugar molecules** based on repetitions that form **a network in which the different chains are strung together**. Its molecular weight ranges from **2500 to 3500 kDa**.

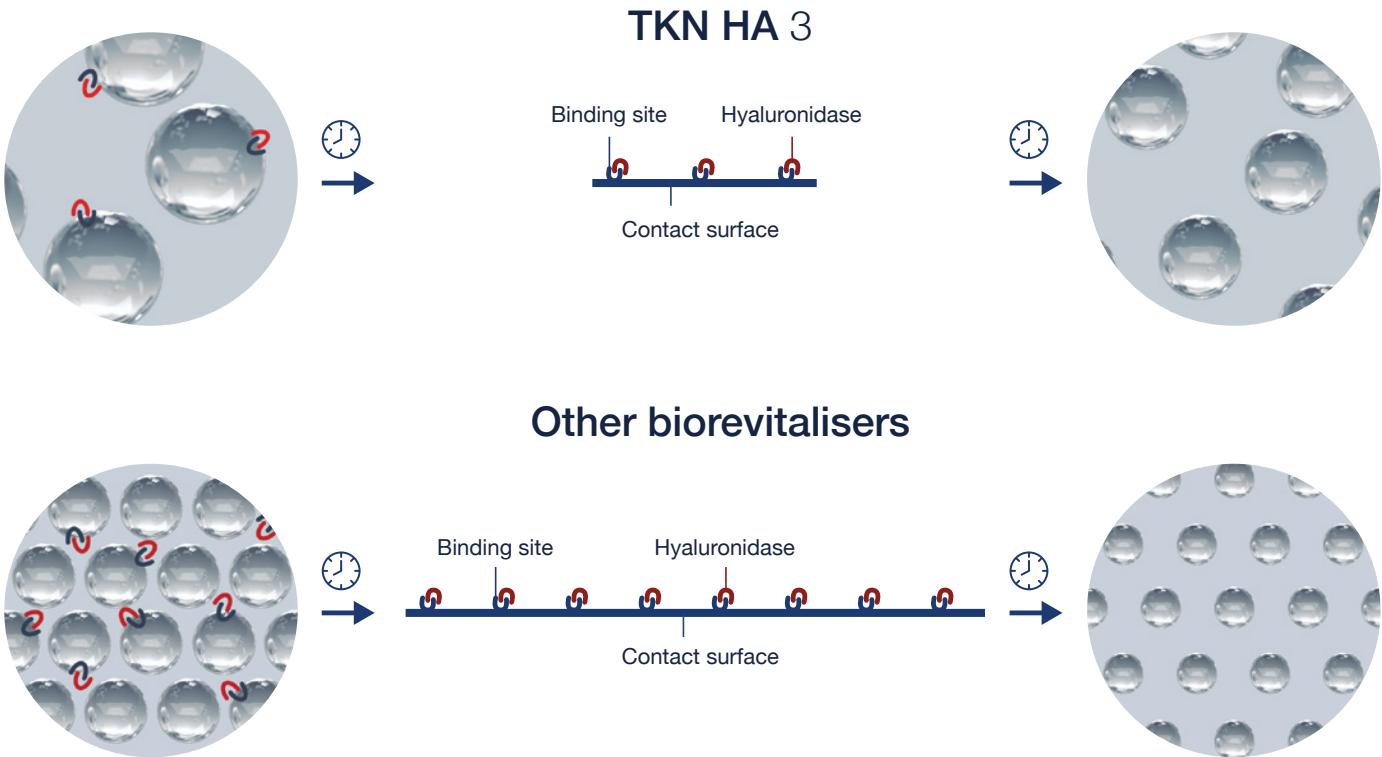
TKN HA 3 is a hyaluronic acid with a molecular weight of 3000 kDa, the nearest to that found natural in the dermis^[2].



Product of the utmost purity with the nearest molecular weight to that of hyaluronic acid in the skin.

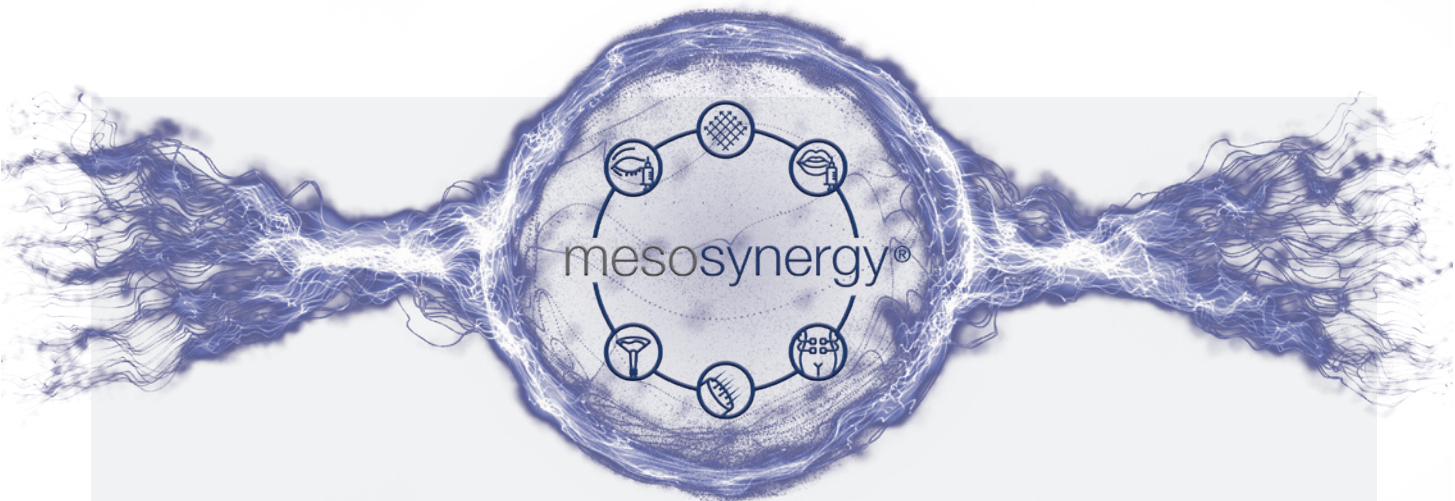
Durability

A larger molecule degrades more slowly due to its smaller contact surface^[5]. Due to the smaller contact surface of hyaluronic acid with the medium, hyaluronidases have fewer binding sites and **degrade hyaluronic acid much more slowly**.



Adapted concentration

The concentration of TKN HA 3 is adapted to the characteristics of the very high molecular weight of the hyaluronic acid. Because it is smaller, the solution is much more fluid, **lowering the extrusion force from the syringe**. Use with **30G needles**.



TKN HA 3 is a product specifically developed to rejuvenate all skin types as of the age of 30, when neocollagenesis begins to slow down.

TKN HA 3 hyaluronic acid is of the highest quality, and improves firmness, elasticity and hydration of the skin as of the first few sessions.

Its high molecular weight (3000 kDa), provides lasting results.



TKN HA 3

Very-high-molecular-weight hyaluronic acid

- Quantity of HA:** 14.4 mg/syringe
- Concentration:** 9 mg/ml
- Syringe:** 1.6 ml
- Very high molecular weight:** 3000 kDa
- Injectable certification** – Medical device



PROPERTY	SPECIFICATIONS
Appearance	Viscous, homogeneous, colourless and transparent gel
Osmolality	≈ 300 mOsmol/kg
pH	≈ 7.0
Dynamic viscosity	≈ 16000 cP
Bacterial endotoxin	< 0.25 EU/syringe
Sterility	Sterile

APPLICATION TECHNIQUES

We work with a non-reticular hyaluronic acid of very high molecular weight (3000 kDa), to achieve in-depth biorevitalisation.

The recommended needle is 4 mm and 30 G for application using the end-to-end technique.



Face



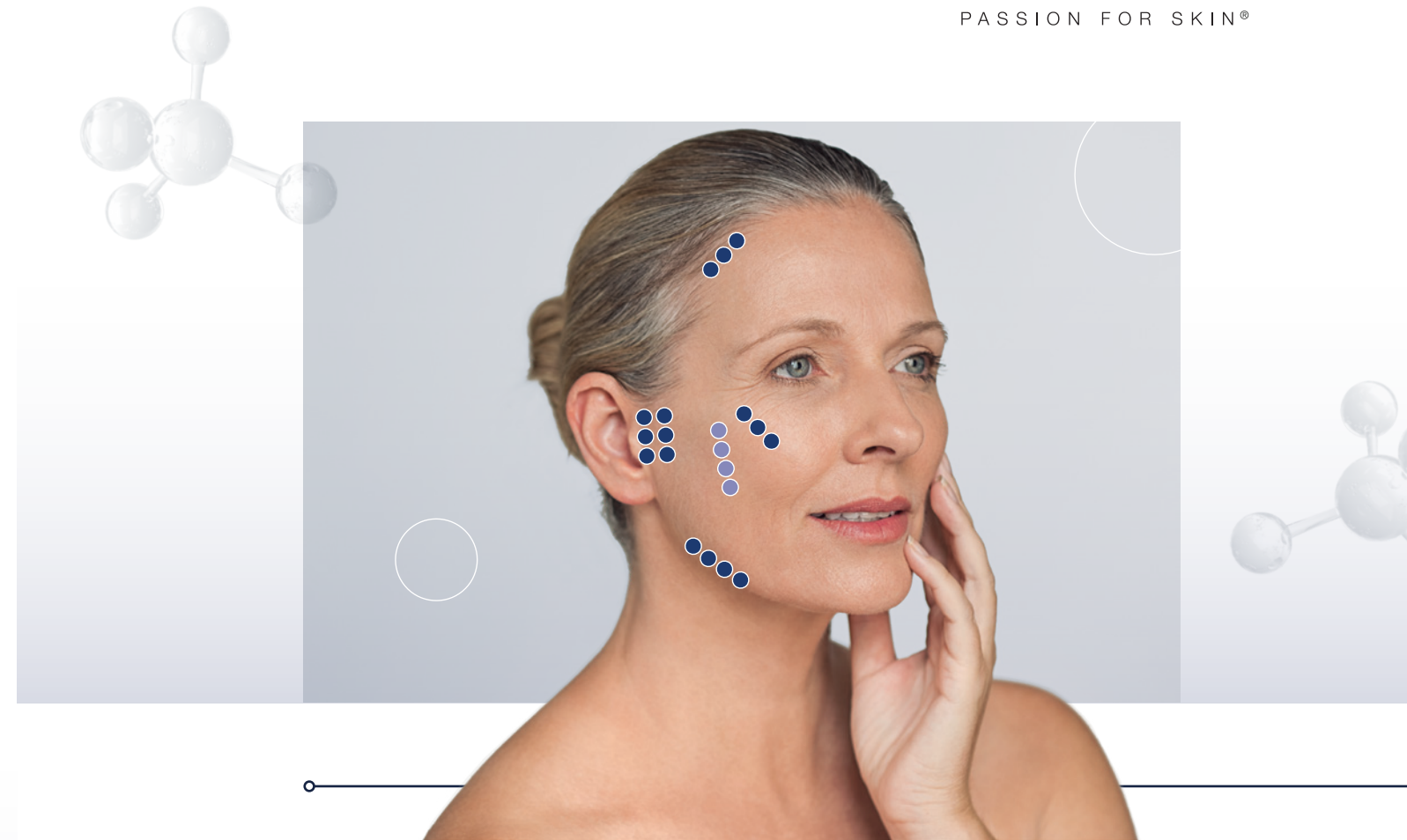
Warnings

It is important not to inject too close to the surface or overcorrect to avoid the appearance of papules that may remain visible for 7 days or more.



Indication

Blue dots, depth ≤ 4 mm, approximate distance between dots 5 mm.



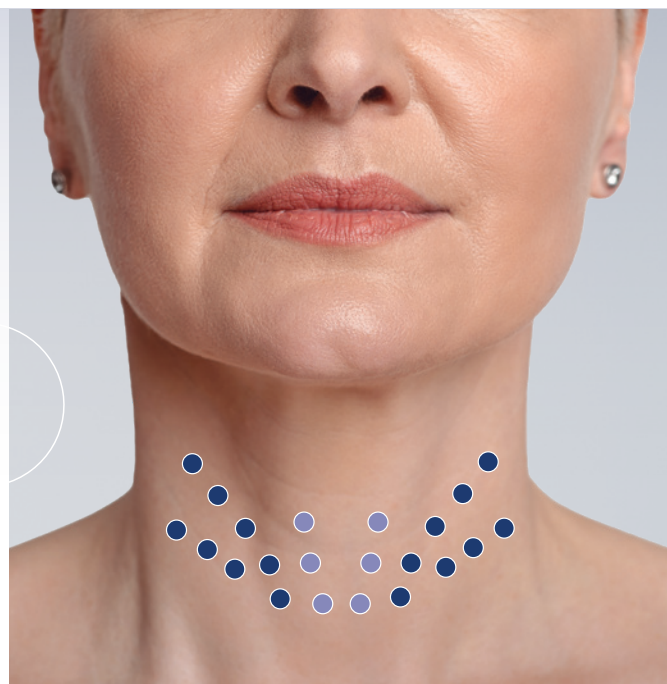
1. Initially, weakened anatomical structures are reinforced, so the patient's face will be examined in search of these weaknesses.
2. Reinforce positioning of the malar arch, apply two lines of injections parallel to each other in the preauricular area and along the mandibular arch without reaching the jawl.
3. Additional injection points will be made at the hairline at the same distance and depth to reinforce positioning.

- These points are injected during the first step of each session.
- These points are injected during the second step of each session. They are distributed in an anti-gravitational direction, from the bottom upwards to provide greater support.



Neck

- In the first session, work only on the sides to revitalise and redensify. Always working upwards.
- In the following sessions, inject the side areas again and then start injecting the central area.



i

Indication

The skin on the neck is thinner, and should be pinched gently prior to injection. Point-to-point technique.



Neckline

APPLICATION TECHNIQUE

- End-to-end, following the path of the wrinkle.
- Cannula, with a line perpendicular to the wrinkle to encourage its distension.



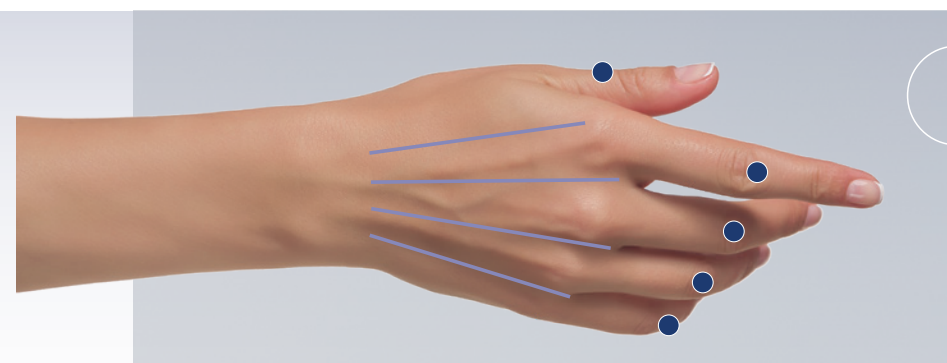
i

Indication

The skin in the neckline area is also very thin, and there are many possibilities for visible papules to form.

If working with a cannula, leave very little in each tube and not overcorrect.

Hand



- End to end.
- Cannula, 4 lines from the carpal to the head of each metacarpal.



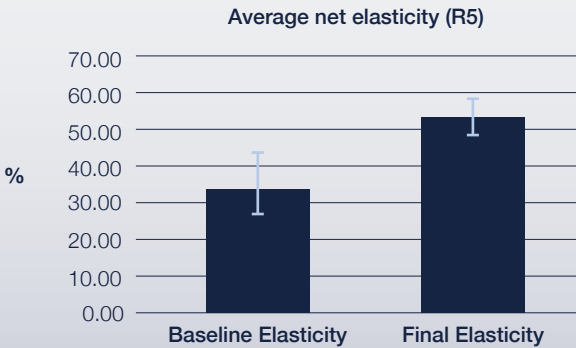
Results^[6]

Improvement in Elasticity

66.1%

Average at 30 days.

Data obtained using a Cutometer® probe. This exerts a suction force on the skin, measuring its elastic behaviour in the relaxation phase.

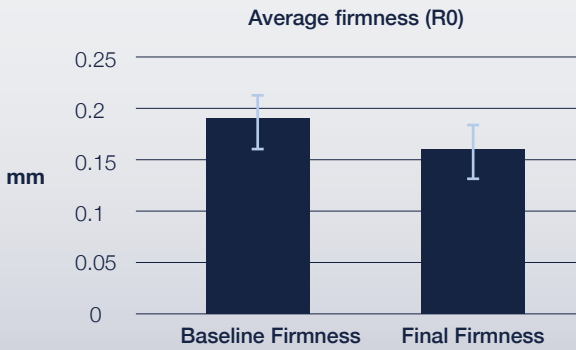


Improvement in Firmness

15.3%

Average at 30 days.

Data obtained using a Cutometer® probe. It exerts a suction force on the skin, measuring the mm of skin entering it. The firmer the skin, the fewer mm the probe detects.

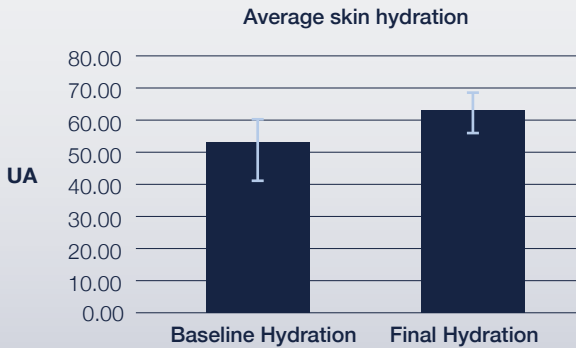


Improvement in Hydration

19.8%

Average at 30 days.

Data obtained using a Corneometer® probe. It measures the amount of water present in the epidermis using the capacitance principle of a dielectric medium.

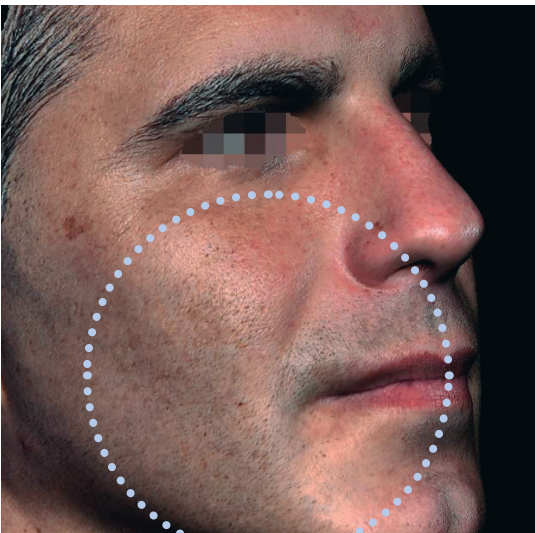
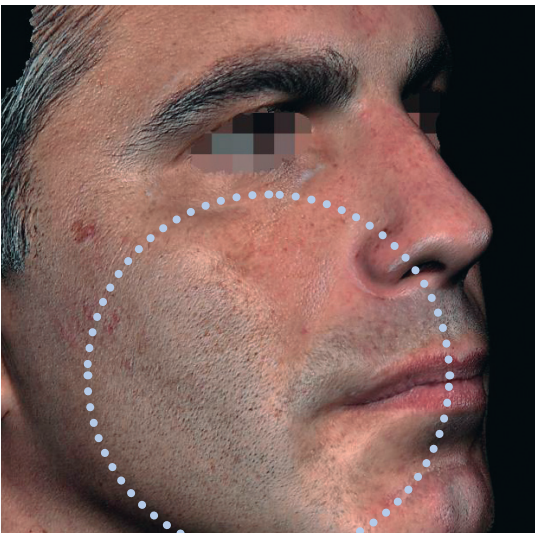
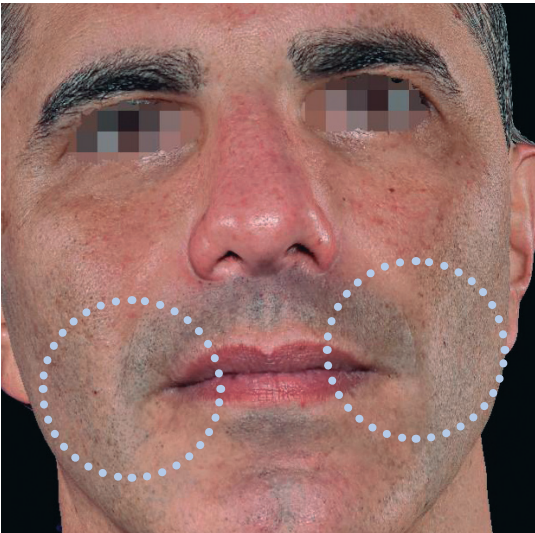
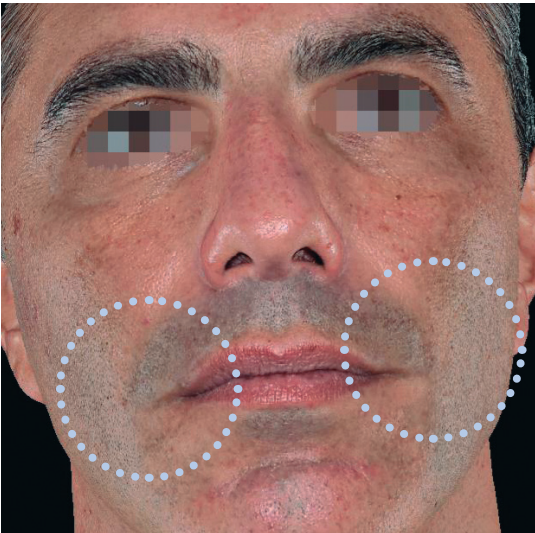


Results^[6]

A 37-year-old patient on whom 3 sessions were performed every 15 days using 2 syringes per session.

Start

30 days post-treatment

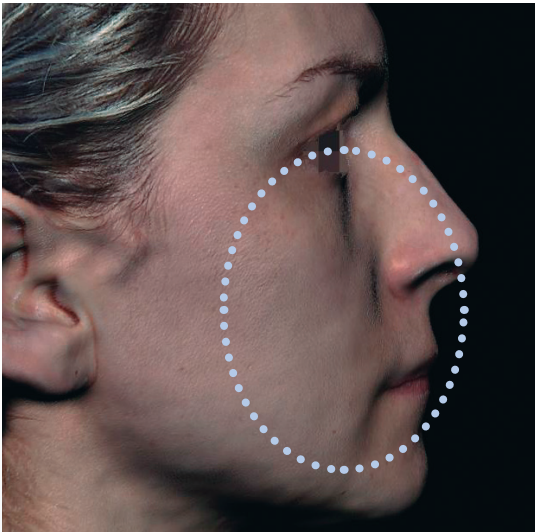
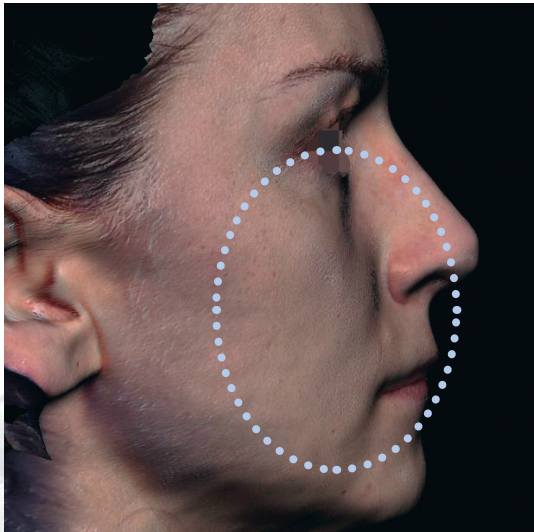
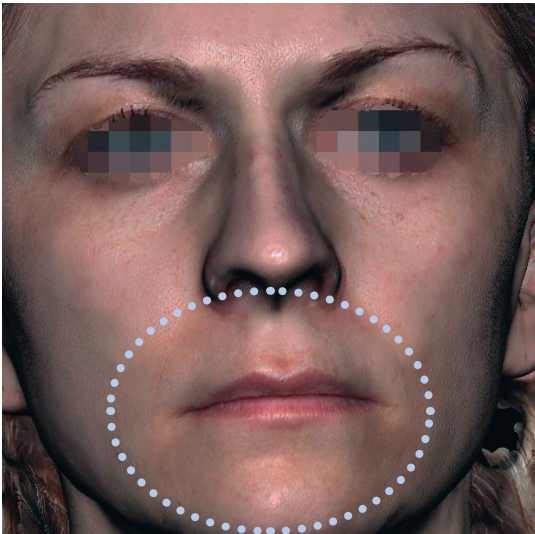
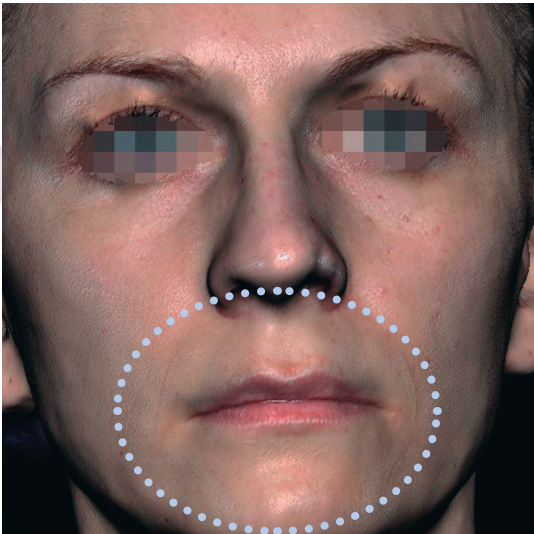


Results^[6]

A 36-year-old patient on whom 3 sessions were performed every 21 days using 2 syringes per session.

Start

60 days post-treatment

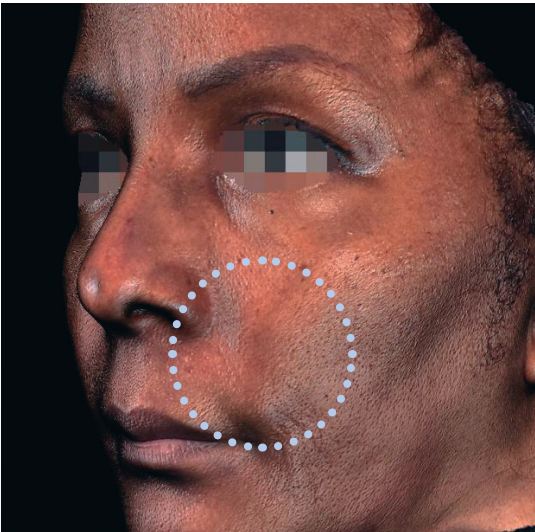
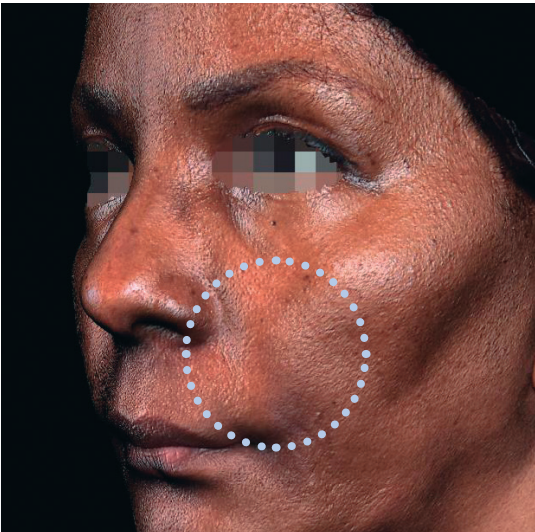
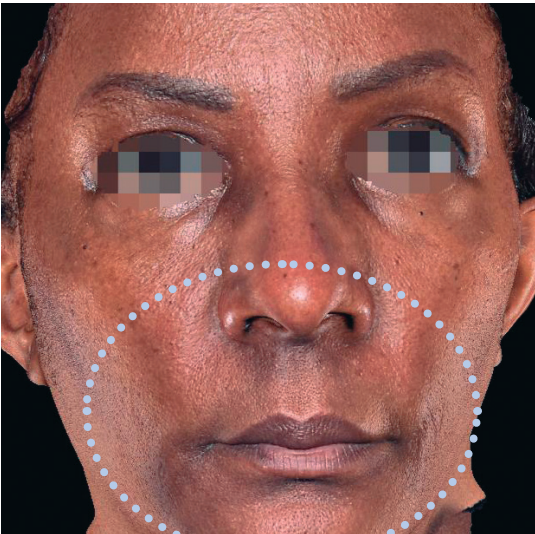
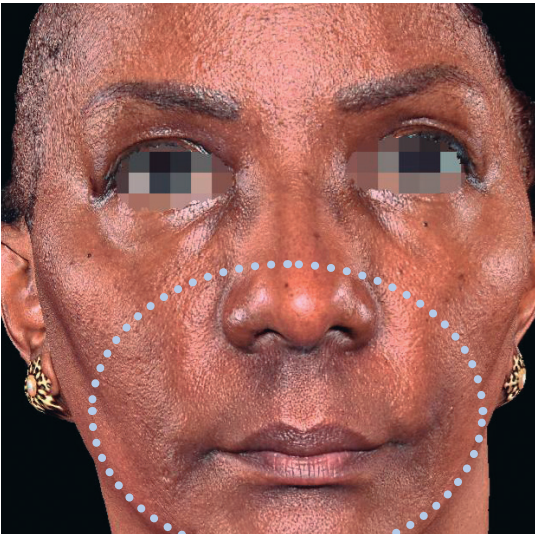


Results^[6]

A 53-year-old patient on whom 3 sessions were performed every 15 days using 2 syringes per session.

Start

60 days post-treatment

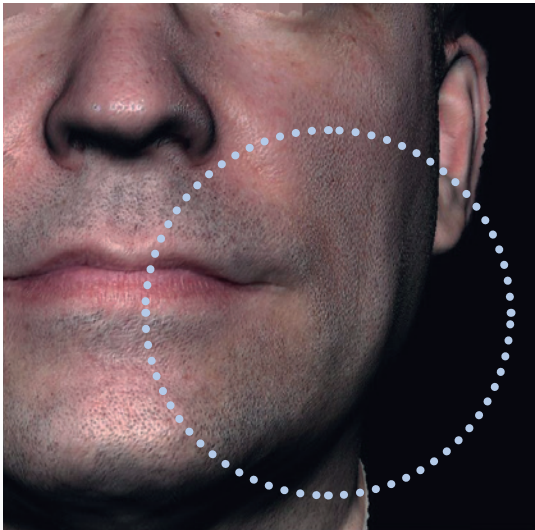
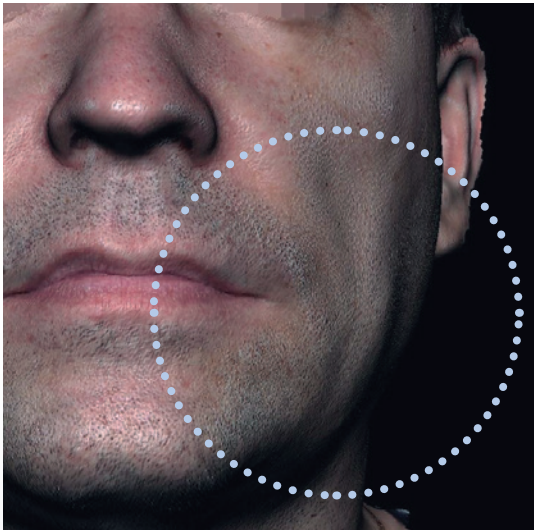
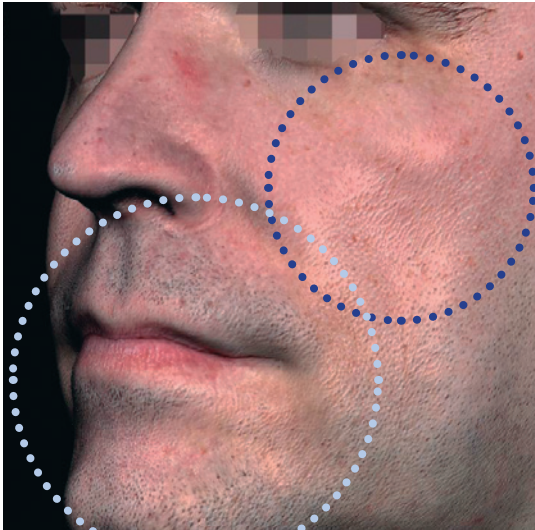
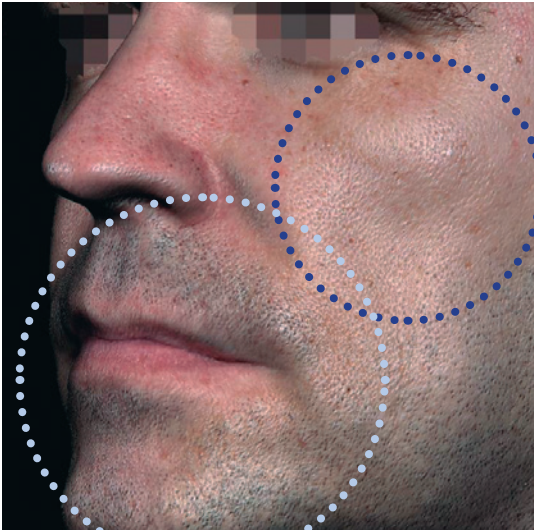


Results^[6]

A 45-year-old patient on whom 3 sessions were performed every 15 days using 2 syringes per session.

Start

60 days post-treatment



Post-treatment care

Medical cosmetics that help in skin recovery and care after a medical-cosmetic intervention.



After Cream

- Local-action cream with cannabidiol (CBD), vitamin K and *Arnica montana* that helps reduce post-cosmetic bruising and redness.
- 50 ml / 1.69 fl oz



+
Arnica & Vit K

Skin Architect Mesoserum

- Mesoserum with highly concentrated ingredients to reduce the visible effects of ageing, providing a powerful nourishing effect.
- Key active ingredients: DMAE, L-Carnitine, Hyaluronic Acid, Natural Collagen, Elastin, Organic Silicon, Acetyl Hexapeptide-8 and Vitamin A.
- 30 ml / 1.01 fl oz



MEDICAL
GRADE



Skin Architect Cream

- Moisturising and nourishing anti-ageing cream that also helps boost and prolong the results of cosmetic procedures.
- Key active ingredients: DMAE, L-Carnitine, Hyaluronic Acid, Natural Collagen, Elastin, Organic Silicon, Acetyl Hexapeptide-8, Shea Butter and Vitamin A.
- 50 ml / 1.69 fl oz



TOSKANIMED

PASSION FOR SKIN®



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- [1] Laurent TC, Fraser JRE. (1992) Hyaluronan. FASEB J. 6:2397-404
[2] Stern R, Maibach HI. (2008) Hyaluronan in skin: aspects of aging and its pharmacologic modulation. Clin Dermatol. 26:106-22.
[3] Aseptic media fill process.
[4] O'Connell CD, Onofrillo C, Duchi S, Li X, Zhang Y, Tian P, Lu L, Trengove A, Quigley A, Gambhir S, Khansari A, Mladenovska T, O'Connor A, Di Bella C, Choong PF, Wallace GG. Evaluation of sterilisation methods for bio-ink components: gelatin, gelatin methacryloyl, hyaluronic acid and hyaluronic acid methacryloyl. Biofabrication. Apr 2019;11(3):035003. doi: 10.1088/1758-5090/ab0b7c. PMID: 30818298.
[5] Masel, Richard I. Chemical Kinetics and Catalysis Wiley-Interscience, New York, 2001. ISBN 0-471-24197-0.
[6] Product tested on volunteers of both sexes, aged between 36 and 70, with different skin degrees of ageing on the Glogau scale. Photographic record using LifeViz™ Quantificare 3D facial analyser was used to verify these results, as well as Courage Khazaka electronic Corneometer® and Cutometer® probes.